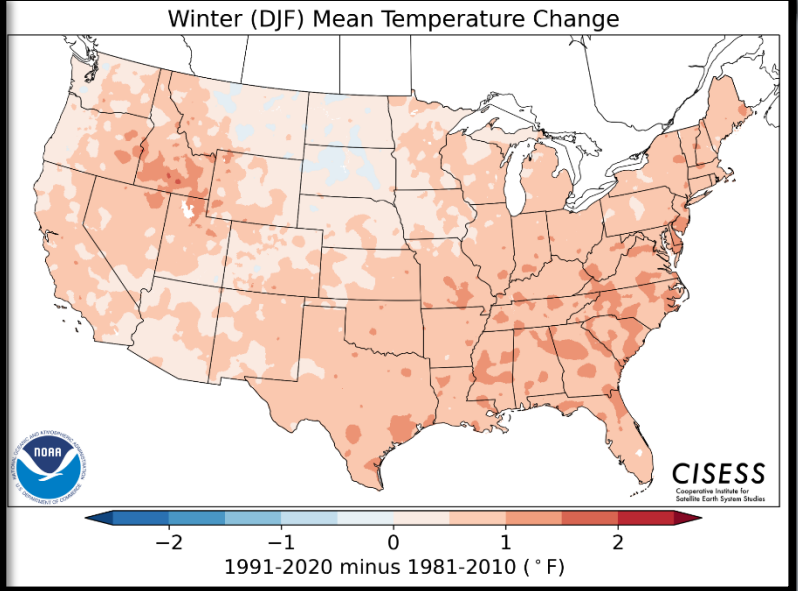
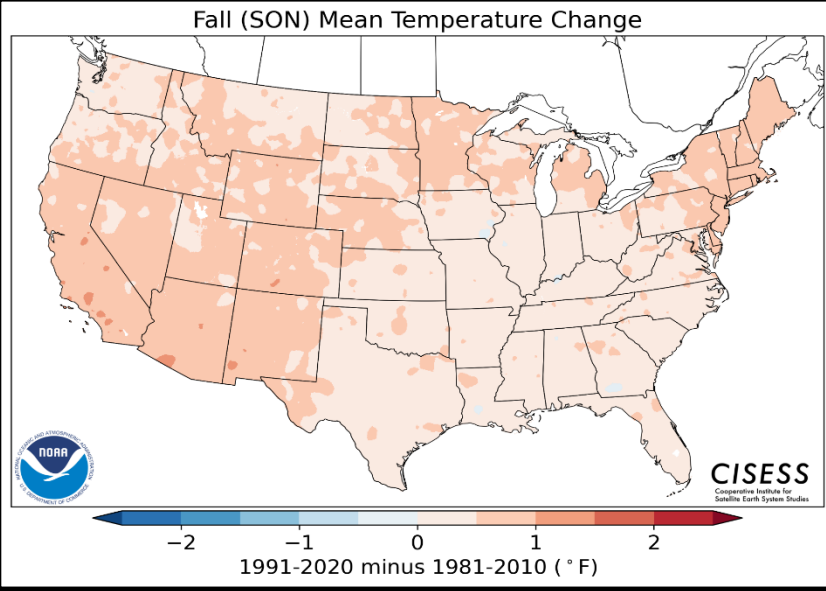
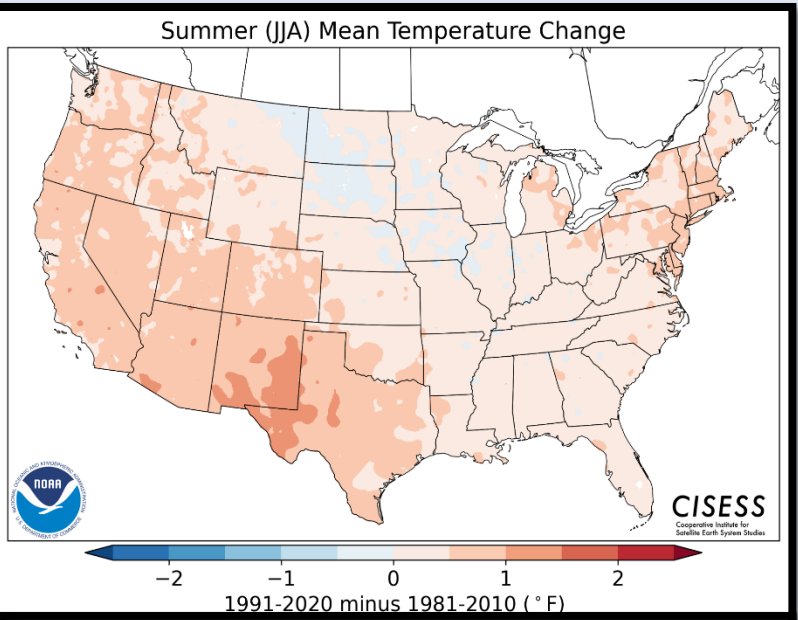
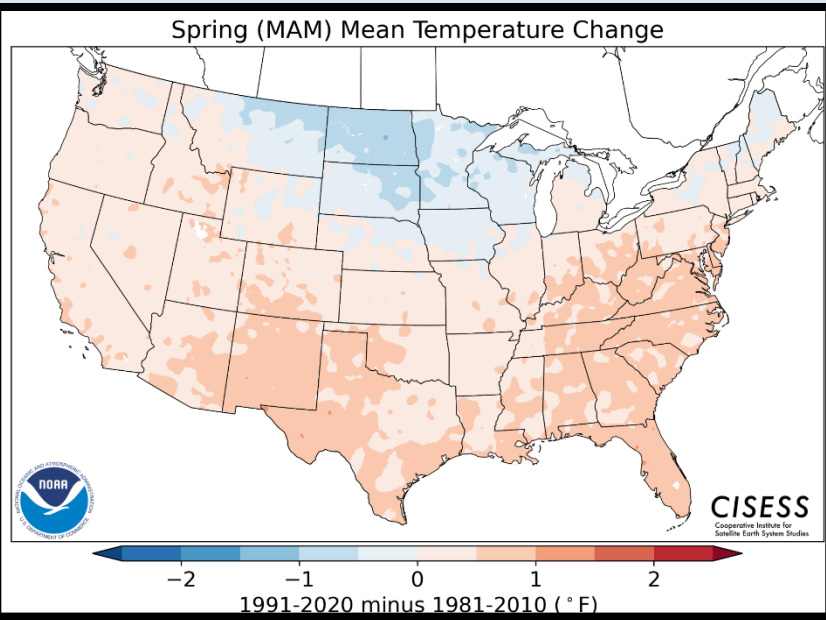




New 30-year Climate Normals Officially Released for the period 1991-2020





Why new Climate Normals?

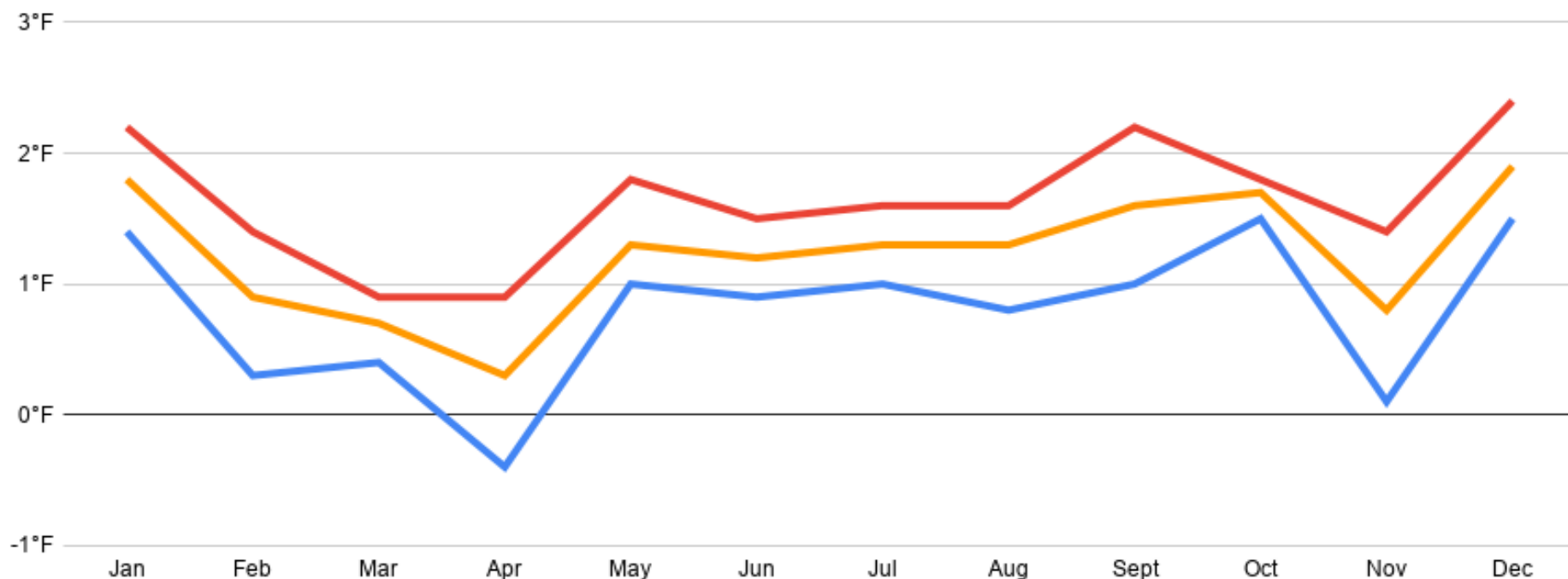
- NOAA's National Centers for Environmental Information (NCEI) has a responsibility to fulfill a mandate of Congress "... to establish and record the climatic conditions of the United States." This responsibility comes from a provision of the Organic Act of October 1, 1890, which established the Weather Bureau as a civilian agency.
- NOAA's computation of Climate Normals is in accordance with the recommendation of the World Meteorological Organization (WMO), of which the United States is a member.
- Climate Normals are three-decade averages of climatological variables including temperature, precipitation and snowfall and are produced once every 10 years.
- They represent the typical climate one can expect for a specific location on an annual, seasonally, monthly and daily period. They are regularly used for placing recent climate conditions into a historical context.
- The previous climate normals were based on the period from 1981–2010. The newest normals released represent the period from 1991–2020.





Albany, NY: How do the "New" and "Old" Normals Compare? (1991 - 2020 minus 1981 - 2010)

— Monthly Mean Temperature — Monthly Maximum Temperature — Monthly Minimum Temperature

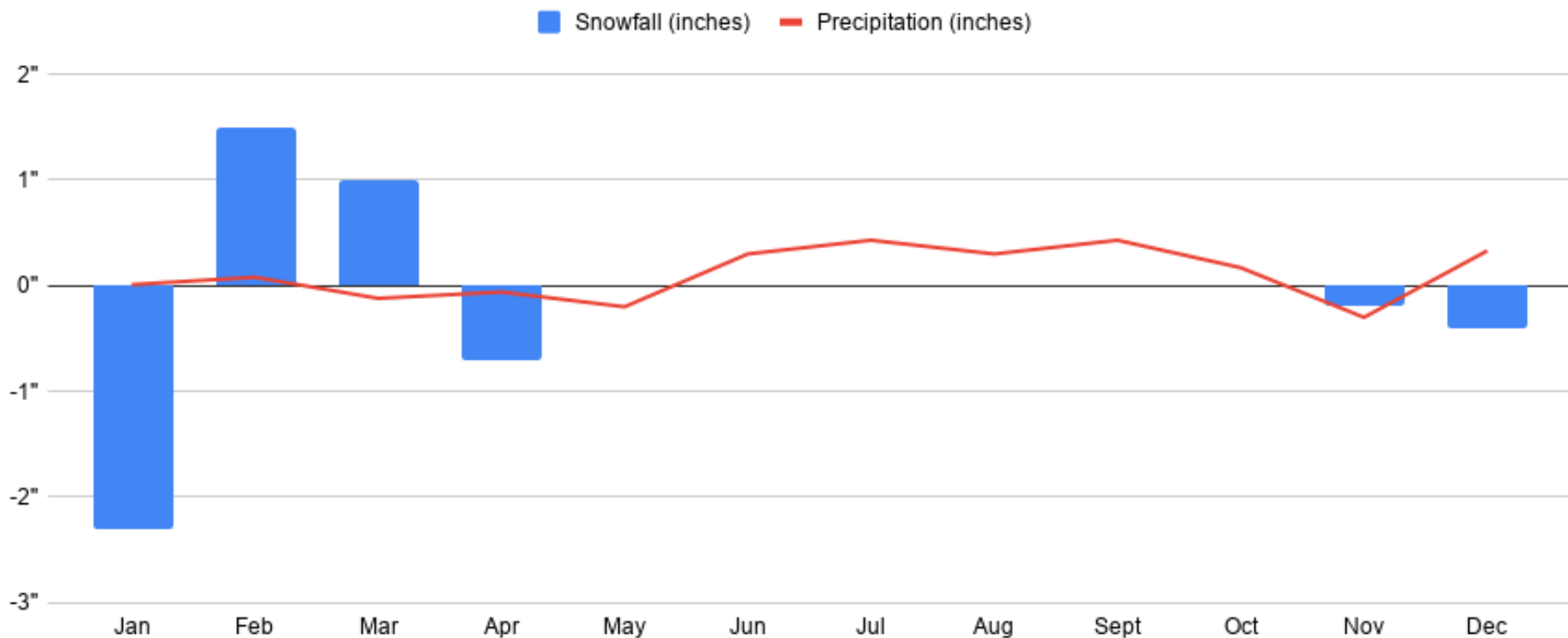


- Monthly temperatures (max, min and mean) increased for many months. January and December observed the largest increases.
- April was the only month to see a temperature decrease with its monthly minimum temperature dropping by -0.4°F





Albany, NY: How do the "New" and "Old" Normals Compare? (1991 - 2020 minus 1981 - 2010)

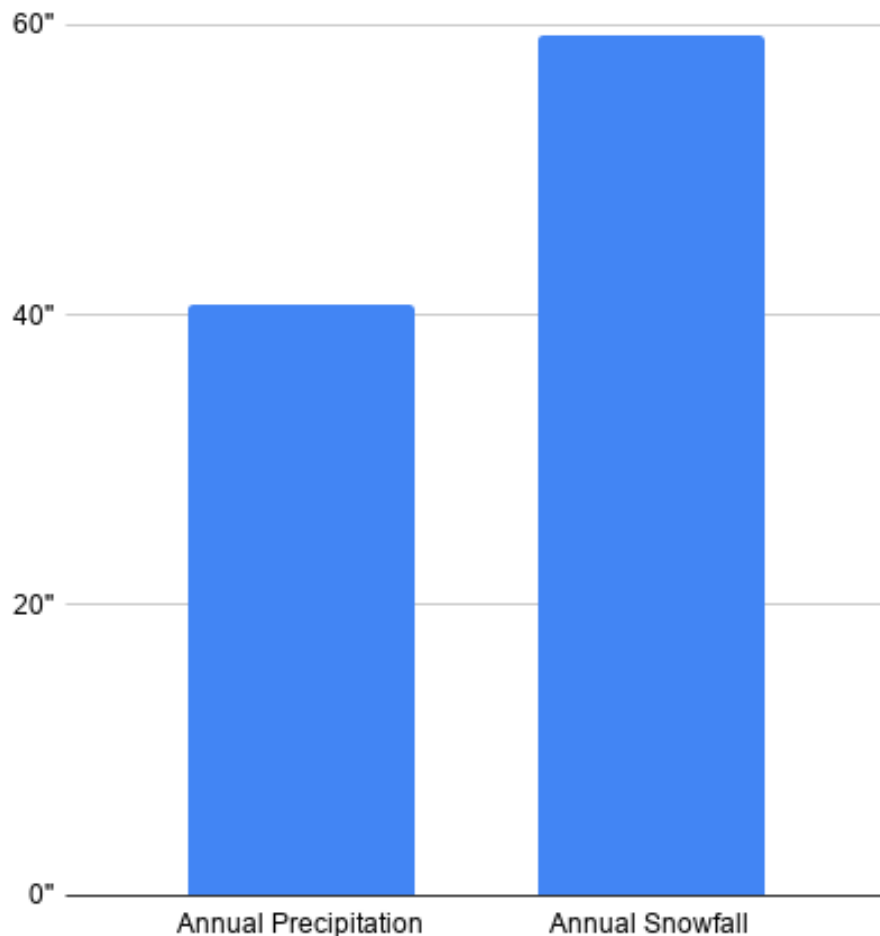


- Monthly snowfall decreased in November (-0.2"), December (-0.4"), January (-2.3") and April (-0.7")
- Monthly snowfall increased in February (+1.5") and March (+1")





1991 - 2020 Climate Normals for Annual Precipitation and Snowfall in Albany, NY



1991 – 2020 minus 1981 - 2010

Annual Precipitation	+ 1.33 inches
Annual Snowfall	- 1.1 inches





Albany, NY

Average Max Temp	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	32.8	36.0	45.3	59.2	71.2	79.4	83.9	82.0	74.4	61.6	49.3	38.2	59.4	35.7	58.6	81.8	61.8
1981-2010	30.6	34.6	44.4	58.3	69.4	77.9	82.3	80.4	72.2	59.8	47.9	35.8	57.9	33.6	57.4	80.2	60.0
1971-2000	31.1	34.3	44.5	57.3	69.8	77.5	82.2	79.7	71.3	59.7	47.5	36.0	57.6	33.8	57.2	79.8	59.5

Average Min Temp	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	15.9	17.6	26.1	36.9	48.1	57.4	62.4	60.7	52.6	41.1	31.6	22.7	39.4	18.8	37.0	60.1	41.8
1981-2010	14.5	17.3	25.7	37.3	47.1	56.5	61.4	59.9	51.6	39.6	31.5	21.2	38.7	17.7	36.7	59.3	40.9
1971-2000	13.3	15.7	25.4	35.9	46.5	55.0	60.0	58.3	49.9	38.8	30.8	20.1	37.5	16.4	35.9	57.8	39.8

Mean Temperature	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	24.4	26.8	35.7	48.1	59.6	68.4	73.1	71.4	63.5	51.4	40.5	30.4	49.4	27.2	47.8	71.0	51.8
1981-2010	22.6	25.9	35.0	47.8	58.3	67.2	71.8	70.1	61.9	49.7	39.7	28.5	48.3	25.6	47.0	69.7	50.5
1971-2000	22.2	25.0	35.0	46.6	58.1	66.3	71.1	69.0	60.6	49.3	39.2	28.0	47.5	25.1	46.4	68.8	49.7

Heating Degree Days	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	1260	1070	908	514	204	37	3	10	115	428	737	1071	6357	3400	1627	50	1280
1981-2010	1316	1093	929	520	235	52	5	18	144	478	759	1131	6680	3541	1684	75	1381
1971-2000	1330	1135	938	553	240	62	10	26	168	484	772	1142	6860	3607	1731	98	1424

Cooling Degree Days	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	0	0	0	5	38	139	255	207	70	5	0	0	721	0	44	601	76
1981-2010	0	0	0	4	26	118	218	177	51	4	0	0	597	0	30	512	55
1971-2000	0	0	1	3	27	102	206	157	46	2	0	0	544	0	31	465	48

Precipitation	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	2.60	2.28	3.09	3.11	3.41	4.05	4.55	3.76	3.73	3.85	2.99	3.26	40.68	8.14	9.61	12.36	10.57
1981-2010	2.59	2.20	3.21	3.17	3.61	3.79	4.12	3.46	3.30	3.68	3.29	2.93	39.35	7.72	9.99	11.37	10.27
1971-2000	2.71	2.27	3.17	3.25	3.67	3.74	3.50	3.68	3.31	3.23	3.31	2.76	38.60	7.74	10.09	10.92	9.85

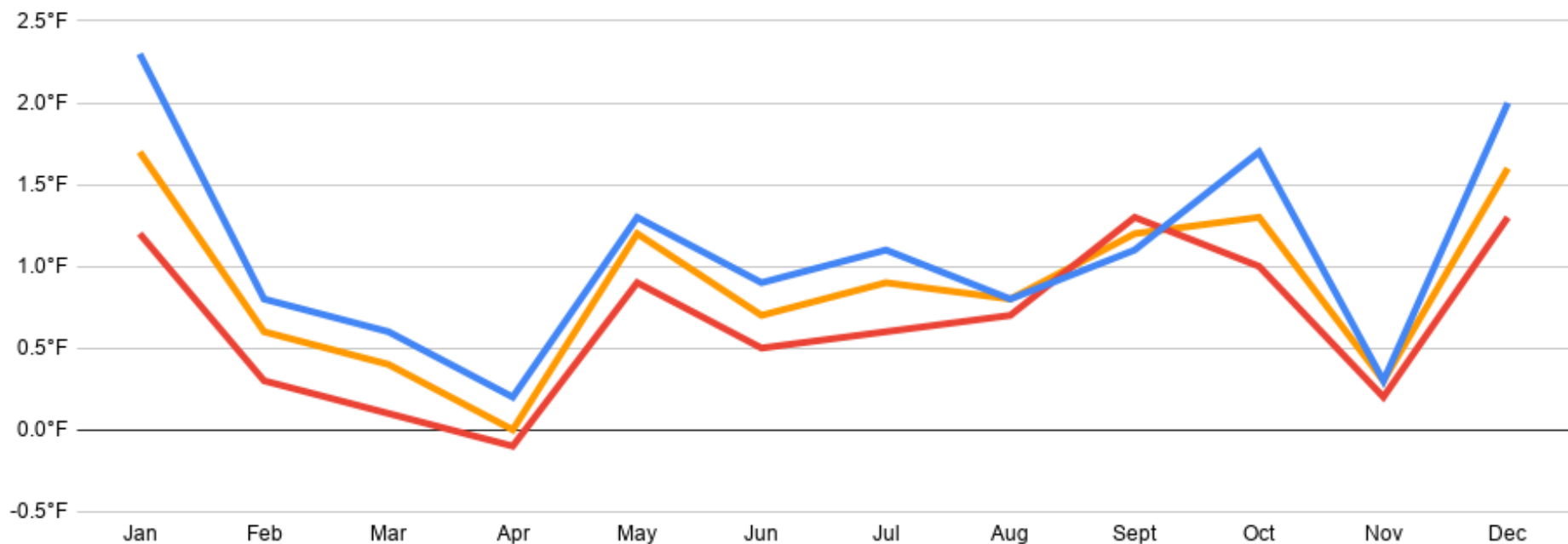
Snowfall	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	15.6	13.7	12.0	1.6	0.1	0.0	0.0	0.0	0.0	0.3	2.6	13.3	59.2	42.8	13.7	0.0	2.9
1981-2010	17.9	12.2	11.0	2.3	0.1	0.0	0.0	0.0	0.0	0.3	2.8	13.7	60.3	43.8	13.4	0.0	3.1
1971-2000	17.7	12.8	10.9	2.9	0.1	0.0	0.0	0.0	0.0	0.2	5.1	13.0	62.7	43.5	13.9	0.0	5.3





Glens Falls, NY: How do the "New" and "Old" Normals Compare? (1991 - 2020 minus 1981 - 2010)

— Monthly Mean Temperature — Monthly Maximum Temperature — Monthly Minimum Temperature



- Monthly temperatures (max, min and mean) increased for many months. January, September and December observed the largest increases.
- Minimal changes to monthly temperatures occurred in April.





Glens Falls, NY

Average Max Temp	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	29.7	33.1	42.5	56.6	69.0	77.1	81.5	79.6	71.9	59.2	46.7	35.3	56.9	32.7	56.0	79.4	59.3
1981-2010	28.5	32.8	42.4	56.7	68.1	76.6	80.9	78.9	70.6	58.2	46.5	34.0	56.3	31.8	55.7	78.8	58.4
1971-2000	28.5	32.1	42.6	56.1	68.7	76.8	81.6	79.0	70.2	58.3	45.9	33.9	56.1	31.5	55.8	79.1	58.1

Average Min Temp	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	7.9	10.6	20.9	32.7	43.9	52.9	57.8	55.9	47.8	36.8	27.6	18.0	34.5	12.8	32.5	55.5	37.3
1981-2010	7.4	9.8	20.3	32.5	42.6	52.0	56.7	55.1	46.4	35.1	27.3	16.0	33.5	11.1	31.8	54.6	36.3
1971-2000	7.9	10.6	22.2	33.6	44.5	53.1	58.2	56.4	47.6	36.3	28.4	16.5	34.6	11.7	33.4	55.9	37.4

Mean Temperature	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	19.7	21.9	31.7	44.6	56.5	65.0	69.7	67.8	59.7	48.0	37.2	26.6	45.7	22.7	44.3	67.5	48.3
1981-2010	18.0	21.3	31.3	44.6	55.3	64.3	68.8	67.0	58.5	46.7	36.9	25.0	44.9	21.4	43.7	66.7	47.3
1971-2000	18.2	21.4	32.4	44.9	56.6	65.0	69.9	67.7	58.9	47.3	37.2	25.5	45.4	21.6	44.6	67.5	47.8

Heating Degree Days	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	1404	1208	1032	612	283	77	14	33	193	528	836	1189	7409	3801	1927	124	1557
1981-2010	1458	1224	1043	613	310	90	21	45	219	570	843	1240	7678	3922	1967	157	1632
1971-2000	1450	1222	1011	604	274	65	15	28	198	550	835	1234	7486	3906	1889	108	1583

Cooling Degree Days	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	0	0	0	1	18	77	158	118	34	2	0	0	407	0	19	353	35
1981-2010	0	0	0	1	11	69	139	107	24	1	0	0	353	0	13	315	25
1971-2000	0	0	0	0	14	63	167	113	14	0	0	0	371	0	14	343	14

Precipitation	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	2.56	1.95	2.79	3.10	3.35	3.72	4.26	3.48	3.30	3.68	3.01	3.01	38.21	7.52	9.24	11.46	9.99
1981-2010	2.86	2.08	2.94	3.00	3.61	3.55	4.09	3.68	3.38	3.51	3.31	3.05	39.06	7.99	9.55	11.32	10.20
1971-2000	3.12	2.16	3.08	3.01	3.75	3.41	3.62	3.66	3.45	3.15	3.23	2.93	38.57	8.21	9.84	10.69	9.83

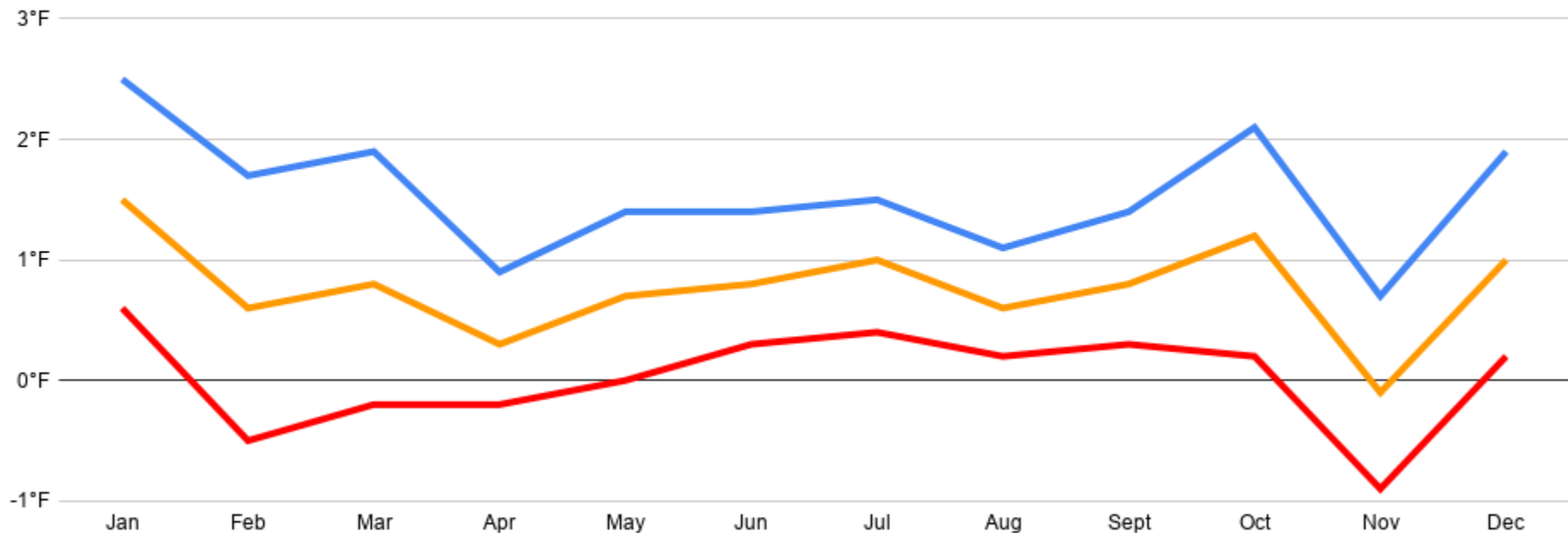
Snowfall	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981-2010	23.7	12.7	12.8	2.5	0	0	0	0	0	0.1	3.4	12.8	68.0	49.2	15.3	0	3.5
1971-2000	20.0	12.6	12.5	2.9	0	0	0	0	0	0	4.2	13.8	66.0	46.4	15.4	0	4.2





Poughkeepsie, NY: How do the "New" and "Old" Normals Compare? (1991 - 2020 minus 1981 - 2010)

— Monthly Mean Temperature — Monthly Maximum Temperature — Monthly Minimum Temperature



- Monthly minimum temperatures increased for many months. The largest increase occurred in January, March, October and December. February and November were the exceptions cooling by 0.5°F & 1°F, respectively.
- Monthly maximum temperatures increased the most in January (+2.5°F) and October (+2.1°F).





Poughkeepsie, NY

Average Max Temp	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	36.0	38.9	47.9	60.6	71.3	79.8	84.8	82.8	75.3	63.3	51.4	40.5	61.0	38.4	59.9	82.5	63.3
1981-2010	35.4	39.4	48.1	60.8	71.3	79.5	84.4	82.6	75.0	63.1	52.3	40.3	61.1	38.3	60.1	82.2	63.5
1971-2000	34.2	37.5	47.2	59.0	70.4	78.4	83.6	81.7	73.8	62.1	50.6	39.1	59.8	36.9	58.9	81.2	62.2

Average Min Temp	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	18.2	19.5	27.4	37.5	47.7	57.1	62.3	60.7	52.5	41.1	31.6	23.8	40.0	20.5	37.5	60.1	41.8
1981-2010	15.7	17.8	25.5	36.6	46.3	55.7	60.8	59.6	51.1	39.0	30.9	21.9	38.5	18.5	36.1	58.8	40.4
1971-2000	14.7	16.1	25.5	35.8	46.3	55.3	60.2	59.3	50.1	38.1	30.1	20.9	37.7	27.1	47.4	69.8	50.8

Mean Temperature	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	27.1	29.2	37.6	49.0	59.5	68.4	73.6	71.7	63.9	52.2	41.5	32.1	50.5	29.5	48.7	71.3	52.5
1981-2010	25.6	28.6	36.8	48.7	58.8	67.6	72.6	71.1	63.1	51.0	41.6	31.1	49.8	28.4	48.1	70.5	51.9
1971-2000	24.5	26.8	36.4	47.4	58.4	66.9	71.9	70.5	62.0	50.1	40.4	30.0	48.8	27.1	47.4	69.8	50.8

Heating Degree Days	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	1175	1002	848	484	206	36	3	8	107	403	705	1018	5995	3195	1538	46	1215
1981-2010	1223	1019	874	494	223	49	5	12	123	436	702	1051	6210	3293	1591	65	1261
1971-2000	1257	1070	889	528	220	42	6	13	124	463	741	1085	6438	3412	1637	61	1328

Cooling Degree Days	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	0	0	0	5	35	139	268	217	74	6	0	0	745	0	41	624	80
1981-2010	0	0	0	5	31	127	240	201	64	4	0	0	671	0	35	567	68
1971-2000	0	0	0	0	15	97	219	183	33	3	0	0	550	0	15	499	36

Precipitation	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	2.82	2.21	3.09	3.62	3.47	3.91	3.78	4.28	4.33	3.73	3.27	3.39	41.90	8.42	10.18	11.97	11.33
1981-2010	3.08	2.66	3.57	3.78	4.41	4.43	4.65	4.20	4.28	4.47	3.47	3.53	46.53	9.27	11.76	13.28	12.22
1971-2000	3.19	2.53	3.59	3.79	4.73	3.73	4.72	3.83	3.69	3.56	3.53	3.23	44.12	8.95	12.11	12.28	10.78

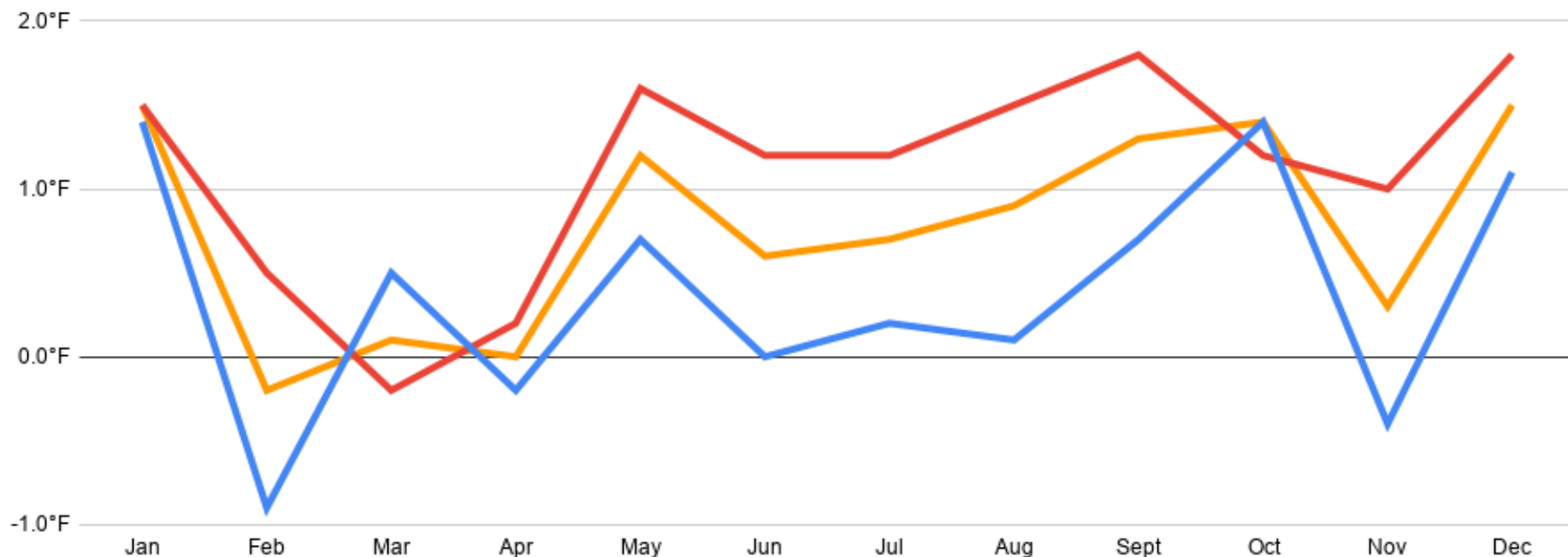
Snowfall	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981-2010	11.6	8.3	4.4	0.4	0	0	0	0	0	0	1.8	5.3	32.8	25.2	5.8	0	1.8
1971-2000	10.4	7.6	5.5	1.8	0	0	0	0	0	0	2.2	6.0	33.5	24.0	7.3	0	2.2





Bennington, VT: How do the "New" and "Old" Normals Compare? (1991 - 2020 minus 1981 - 2010)

— Monthly Mean Temperature — Monthly Maximum Temperature — Monthly Minimum Temperature



- Monthly minimum temperatures increased for many months with the largest increase observed in January, October and December.
- In February, monthly minimum temperatures cooled by nearly 1°F.





Bennington, VT

Average Max Temp	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	32.2	35.2	43.6	56.9	68.6	76.2	80.6	79.2	72.2	59.9	48.5	37.5	57.5	34.9	56.4	78.7	60.2
1981-2010	30.7	34.7	43.8	56.7	67.0	75.0	79.4	77.7	70.4	58.7	47.5	35.7	56.5	33.7	55.8	77.4	58.8

Average Min Temp	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	13.0	14.4	23.2	34.1	44.0	52.4	57.2	55.3	48.1	37.8	29.3	20.6	35.8	16.0	33.8	55.0	38.4
1981-2010	11.6	15.3	22.7	34.3	43.3	52.4	57.0	55.2	47.4	36.4	29.7	19.5	35.5	15.5	33.4	54.9	37.8

Mean Temperature	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	22.6	24.8	33.4	45.5	56.3	64.3	68.9	67.3	60.2	48.9	38.9	29.1	46.7	25.5	45.1	66.8	49.3
1981-2010	21.1	25.0	33.3	45.5	55.1	63.7	68.2	66.4	58.9	47.5	39.8	27.6	46.0	24.6	44.6	66.1	48.3

Heating Degree Days	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	1314	1126	980	587	287	86	20	37	182	503	783	1114	7019	3554	1854	143	1468
1981-2010	1359	1120	984	588	316	97	24	48	206	543	792	1159	7236	3638	1888	169	1541

Cooling Degree Days	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	0	0	0	2	17	65	141	107	36	3	0	0	371	0	19	313	39
1981-2010	0	0	0	3	11	58	123	93	23	2	0	0	312	0	13	274	25

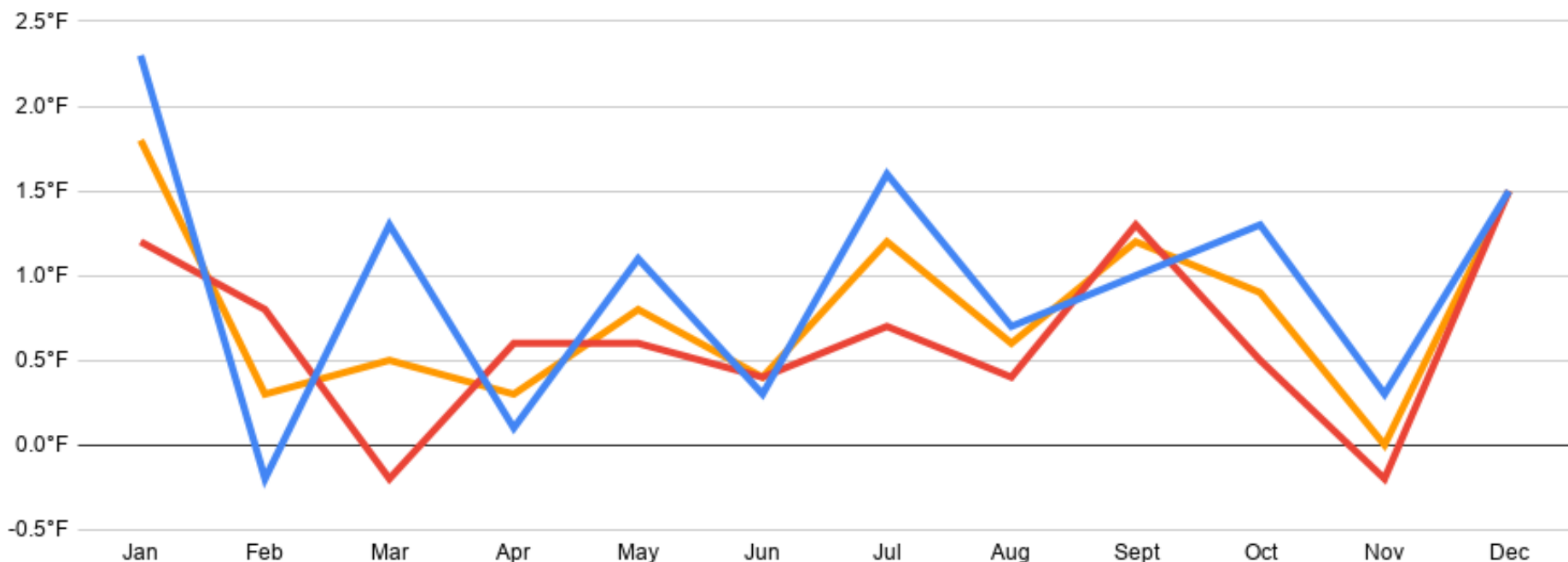
Precipitation	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	2.37	1.94	2.65	2.49	3.47	4.05	4.65	3.86	3.82	3.61	2.77	2.90	38.58	7.21	8.61	12.56	10.20
1981-2010	2.75	2.24	3.15	3.27	3.66	4.13	4.34	4.00	3.57	3.69	3.11	2.79	40.70	7.78	10.08	12.47	10.37





Pittsfield, MA: How do the "New" and "Old" Normals Compare? (1991 - 2020 minus 1981 - 2010)

— Monthly Mean Temperature — Monthly Maximum Temperature — Monthly Minimum Temperature



- Monthly temperatures (max, min and mean) increased for many months. January and December observed the largest increases.
- April, June and November observed minimal changes to monthly temperatures.





Pittsfield, MA

Average Max Temp	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	30.1	33.1	41.7	55.2	67.0	74.6	79.3	77.6	70.4	58.3	46.6	35.5	55.8	32.9	54.6	77.2	58.5
1981-2010	28.9	32.3	41.9	54.6	66.4	74.2	78.6	77.2	69.1	57.8	46.8	34.0	55.3	31.7	54.3	76.7	57.9

Average Min Temp	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	13.9	15.0	23.1	33.8	44.4	53.1	58.0	56.5	48.9	38.5	29.2	20.9	36.3	16.6	33.8	55.9	38.8
1981-2010	11.6	15.2	21.8	33.7	43.3	52.8	56.4	55.8	47.9	37.2	28.9	19.4	35.4	15.4	32.9	55.0	38.0

Mean Temperature	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	22.0	24.1	32.4	44.5	55.7	63.9	68.7	67.1	59.7	48.4	37.9	28.2	46.0	24.7	44.2	66.5	48.7
1981-2010	20.2	23.8	31.9	44.2	54.9	63.5	67.5	66.5	58.5	47.5	37.9	26.7	45.3	23.6	43.6	65.8	48.0

Heating Degree Days	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	1333	1146	1010	617	302	94	22	39	190	516	813	1141	7224	3620	1930	155	1519
1981-2010	1387	1155	1027	628	325	101	31	47	214	544	815	1187	7461	3729	1981	179	1573

Cooling Degree Days	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	0	0	0	2	14	59	136	102	30	2	0	0	344	0	16	297	31
1981-2010	0	0	0	2	11	56	108	93	19	1	0	0	291	0	13	258	20

Precipitation	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	DJF	MAM	JJA	SON
1991-2020	2.67	2.52	3.08	3.38	3.79	4.58	4.18	3.82	4.50	4.56	3.52	3.63	44.23	8.82	10.25	12.58	12.58
1981-2010	2.92	2.68	3.37	3.86	4.21	4.40	4.25	4.09	3.96	4.71	3.93	3.00	45.38	8.60	11.44	12.74	12.60

